

WHAT IS CLAIMED IS:

1 1. A portable wireless unit comprising:
2 a first plane antenna smaller than an antenna size determined
3 by a desired frequency, and
4 a second plane antenna presenting an antenna size determined
5 by said desired frequency on the whole by coupling with said first
6 plane antenna.

1 2. The portable wiring machine of claim 1, wherein said first
2 plane antenna is disposed on a circuit board incorporated in a case
3 as a casing.
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1 3. The portable wiring machine of claim 1, wherein said second
2 plane antenna is provided on outer surface or inner surface of the
3 case as a casing.
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1 4. The portable wiring machine of claim 1, wherein said first
2 plane antenna is a plate-form inverted F type antenna, microstrip antenna,
3 or chip antenna.
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1 5. The portable wiring machine of claim 1, wherein said first
2 plane antenna has a narrow band.
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1 6. The portable wiring machine of claim 1, wherein said first
2 plane antenna is supplied with current, and said second plane antenna
3 is parasitic.
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1 7. The portable wiring machine of claim 1, wherein said second
2 plane antenna is disposed so as to be overlaid in a part or whole on
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3 said first plane antenna.